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\*Admitted only in Maryland  
\*Admitted only in Virginia  
\*Practice Limited to Federal Agencies

December 10, 2004

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Commissioner for Patents  
PO Box 1450  
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**Mail Stop Issue Fee**

Re: Allowed U.S. Utility Patent Application  
Appl. No. 09/632,856; Filed: August 4, 2000  
For: **Wireless Local Area Network (WLAN) Using Universal Frequency  
Translation Technology Including Multi-Phase Embodiments and  
Circuit Implementations**

Inventors: Sorrells *et al.*  
Our Ref: 1744.0630003

Sir:

In response to the **Notice of Allowance and Issue Fee Due** dated September 10, 2004, the following documents are forwarded for appropriate action by the U.S. Patent and Trademark Office:

1. Issue Fee Transmittal (Form PTOL-85B);
2. Fee Transmittal (Form PTO/SB/17);
3. Amendment Under 37 C.F.R. § 1.312
4. Submission of Drawings;
5. 349 sheets of Drawings, approval of which is respectfully requested;
6. Return postcard; and
7. PTO-2038 Credit Card Payment Form for \$1,403.00 to cover:  
\$1,400.00 Issue Fee; and  
\$ 3.00 Advance copies of patent.

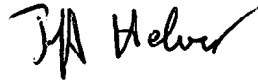
It is respectfully requested that the attached postcard be stamped with the date of filing of these documents, and that it be returned to our courier.

Commissioner for Patents  
December 10, 2004  
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The U.S. Patent and Trademark Office is hereby authorized to charge any fee deficiency, or credit any overpayment, to our Deposit Account No. 19-0036. If extensions of time under 37 C.F.R. § 1.136 other than those otherwise provided for herewith are required to prevent abandonment of the present patent application, then such extensions of time are hereby petitioned, and any fees therefor are hereby authorized to be charged to our Deposit Account No. 19-0036.

Respectfully submitted,

STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.



Jeffrey T. Helvey  
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Enclosures

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:

Sorrells *et al.*

Appl. No.: 09/632,856

Filed: August 4, 2000

For: **Wireless Local Area Network  
(WLAN) Using Universal  
Frequency Translation Technology  
Including Multi-Phase  
Embodiments and Circuit  
Implementations**

Confirmation No.: 2377

Art Unit: 2634

Examiner: Kim, Kevin

Atty. Docket: 1744.0630003

**Submission of Drawings**

Commissioner for Patents  
PO Box 1450  
Alexandria, VA 22313-1450

Sir:

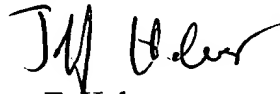
Submitted herewith are three-hundred forty-nine (349) sheets of drawings with Figures 1A, 1B, 1C, 1D, 2A, 2B, 3, 4, 5, 6A, 6B, 6C, 6D, 6E, 6F, 6G, 6H, 6I, 7, 8, 9, 10, 11, 12, 13, 14, 15A, 15B, 15C, 15D, 15E, 15F, 16, 17, 18, 19, 20A, 20A-1, 20B, 20C, 20D, 20E, 20F, 21, 22A, 22B, 22C, 22D, 22E, 22F, 23A, 23B, 23C, 23D, 23E, 23F, 24A, 24B, 24C, 24D, 24E, 24F, 24G, 24H, 24I, 24J, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42A, 42B, 43A, 43B, 44A, 44B, 45, 46A, 46B, 46C, 47, 47A, 47B, 47C, 47D, 48A, 48B, 49A, 49B, 49C, 50, 50A, 50B, 50C, 50D, 51A, 51B, 52A, 52B, 52B-1, 52C, 53, 53A, 53B, 53C, 54, 55, 55A, 55B, 55C, 56A, 56B, 57, 57A, 57B, 57C, 57D, 58, 59, 60, 60A, 60B, 60C, 60D, 61A, 61B, 62, 62A, 62B, 62C, 62D, 62E, 62F, 62G, 62H, 62I, 63, 64, 64A, 64B, 64C, 65, 65A, 65B, 65C, 65D, 65E, 66A, 66B, 67A, 67B, 68A, 68B, 69A, 69B, 70A, 70A-1, 70B, 70C, 70D, 70E1, 70E2, 70F, 70G, 70H, 70I, 70J, 70K, 70L, 70M, 70N, 70O, 70P, 70Q, 70R, 70S, 70S-1, 71A, 71B, 71C, 71D, 72A, 72B, 72C, 72D, 72E, 72F, 72G, 72H, 72I, 72J, 73A, 73B, 74, 75A, 75B, 75C, 76A, 76B, 77, 78, 79A, 79B, 79C, 79D, 80, 81A, 81B, 81C, 82, 83, 84, 85, 86, 87, 88, 89A, 89B, 89C, 89D, 89E, 90A, 90B, 90B-1, 90B-2, 90B-3, 90B-4, 90C, 90C-1, 90C-2, 90C-3, 90C-4, 90D, 91, 92, 93, 94, 95A, 95B, 95C, 96, 97A, 97B, 97C, 97D, 98, 99, 100, 101, 102, 103, 104, 105, 105A, 105B, 105C, 105D, 105E-1, 105E-2, 105F, 105G, 105H, 105I, 105J, 105K, 105L, 105M, 105N, 105O, 105P, 105Q, 105R, 105S, 105T, 105U, 105V, 106A, 106B, 106C, 106D, 106E, 106F, 107A, 107B, 107C, 107D, 108, 109A, 109B, 109C, 109D, 110A, 110B, 110C, 110D, 111, 112A, 112B, 112C, 112D, 113A, 113B, 113C, 113D, 113E, 113F, 114, 115A, 115B, 115C, 115D, 115E, 115F, 116, 117, 118A, 118B, 118C, 118D, 119, 120, 121, 122, 123A, 123B, 123C, 123D, 123E, 123F, 123G, 123H, 124, 125A, 125B, 125C, 125D, 125E, 125F, 125G, 125H, 126A, 126B,

126C, 126D, 126E, 126F, 126G, 126H, 127A, 127B, 127C, 127D, 128, 129, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 142, 143, 144, 145, 146, 147, 148, 149, 150A, 150B, 150C, 150D, 150E, 150F, 150G, 150H, 151, 152, 153, 154, 155, 156, 157, 158, 159A, 159B, 159C, 159D, 160A, 160B, 160C, 160D, 161, corresponding to the above-captioned application. Identification of the drawings is provided in accordance with 37 C.F.R. § 1.84(c). Acknowledgment of the receipt, approval, and entry of these drawings into this application is respectfully requested.

It is not believed that an extension of time is required, other than any already provided herewith. However, if an extension of time is needed to prevent abandonment of the application, then such extension of time is hereby petitioned. The U.S. Patent and Trademark Office is hereby authorized to charge any fee deficiency, or credit any overpayment, to our Deposit Account No. 19-0036.

Respectfully submitted,

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Date: 12/10/04

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